(19) World Intellectual Property Organization

International Bureau





(43) International Publication Date 9 September 2005 (09.09.2005)

PCT

(10) International Publication Number WO 2005/083635 A1

(51) International Patent Classification⁷: G06T 7/60, G06K 9/00, A61B 5/103, G03B 42/02, G01N 23/083

(21) International Application Number:

PCT/SG2005/000060

(22) International Filing Date: 28 February 2005 (28.02.2005)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data: 60/548.836

27 February 2004 (27.02.2004) US

(71) Applicant (for all designated States except US): NATIONAL UNIVERSITY OF SINGAPORE [SG/SG]; 10 Kent Ridge Crescent, Singapore 119260 (SG).

(72) Inventors; and

(75) Inventors/Applicants (for US only): LEOW, Wee Kheng [SG/SG]; School of Computing, National University of Singapore, 10 Kent Ridge Crescent, Singapore 119260 (SG). YAP, Dennis [SG/SG]; School of Computing, National University of Singapore, 10 Kent Ridge Crescent,

Singapore 119260 (SG). **HOWE, Tet Sen** [SG/SG]; SingHealth Research Secretariat, Singapore Health Services Pte Ltd, 11 Third Hospital Avenue, #07-00, SNEC Building, Singapore 168751 (SG). **PNG, Meng Ai** [SG/SG]; SingHealth Research Secretariat, Singapore Health Services Pte Ltd, 11 Third Hospital Avenue, #07-00, SNEC Building, Singapore 168751 (SG).

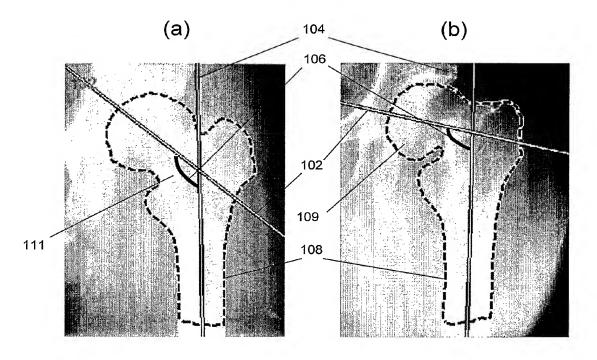
(74) Agent: ELLA CHEONG SPRUSON & FERGUSON (SINGAPORE) PTE LTD; P O Box 1531, Robinson Road Post Office, Singapore 903031 (SG).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,

[Continued on next page]

(54) Title: METHOD AND SYSTEM FOR DETECTION OF BONE FRACTURES



(57) Abstract: A method and system for detection of bone fractures using image processing of a digitised x-ray image.

WO 2005/083635 A1



ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

Published:

with international search report